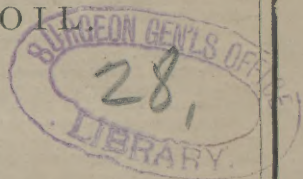


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A CASE  
OF  
REFLEX NEURALGIA,

*ASSOCIATED WITH URETHRAL CONTRACTIONS  
AND A RARE FORM OF URINARY SINUS.*

WITH A DESCRIPTION OF THE  
COLD-WATER CURE.



BY  
FESSENDEN N. OTIS, M. D.,  
CLINICAL PROFESSOR OF GENITO-URINARY DISEASES, COLLEGE OF PHYSICIANS AND  
SURGEONS, NEW YORK.

[REPRINTED FROM THE NEW YORK MEDICAL JOURNAL, FEB., 1875.]

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(Established May, 1872.)

Conducted by Prof. E. L. YOUMANS.

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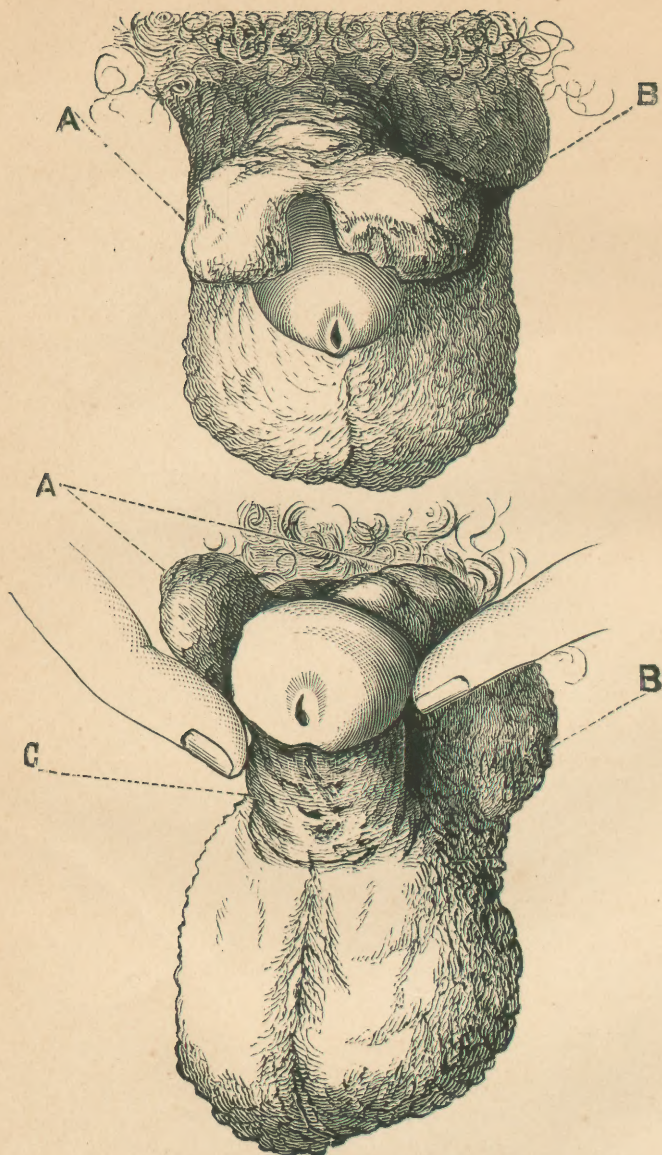
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RARE FORM OF URINARY SINUS, ABSCESES, Etc.

(Reversed from original drawing.)

A, Stump of œdematous prepuce. B, Urinary abscess. C, Urethral fistulæ.

A CASE  
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REFLEX NEURALGIA,

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A CASE OF REFLEX NEURALGIA, ASSOCIATED WITH  
URETHRAL CONTRACTIONS, AND A RARE FORM OF  
URINARY SINUS; WITH SUBJOINED DESCRIPTION OF  
THE "COLD-WATER COIL."

---

X. Y., PHYSICIAN, aged fifty-seven years; has never had any form of venereal disease; no vicious habits from early childhood. Had a very redundant prepuce, which, from frequent attacks of balanitis, became more or less adherent to the glans penis. Up to the age of nineteen years could only uncover one-half the glans. By systematic effort, however, during a period of six months, the adhesions between the glans and the internal reflexion of the prepuce were completely broken up. He had no further trouble up to the age of twenty-two years, when he married. On first intercourse, the frenum (which was very long and attached at the inferior edge of the meatus) was ruptured, occasioning severe hæmorrhage, and a considerable degree of soreness for several days. He remembered no further annoyance up to the year 1857, when, at the age of fifty years, he had what was then supposed to have been an attack of "dumb ague" (irregular chills and fever), which, in spite of the usual antiperiodic remedies, continued for a space of two months. To this a jaundice succeeded, and, at about the same time, the left side of the scrotum became swollen, red, and heavy; not sore to the touch, except on firm pressure. Heavy aching pain felt in the tumor at times, without apparent cause. No treatment resorted to except



that of supporting the mass with an ordinary suspensory bandage. This condition of things remained, without any marked change, for five and a half years, when (in September, 1873, being in low condition from overwork) a small carbuncle made its appearance on his nose, and was soon followed by another, three inches in diameter, on the left side of the neck, which lasted, with much suffering and debilitation, for about three weeks. At this time a circumscribed cellulitis occurred at the most dependent portion of the swollen and indurated scrotum. After a few days' poulticing an opening occurred in the integument, which discharged pus, and was filled with shreds of disorganized tissue, similar in appearance to those which had characterized the *débris* of the antecedent carbuncles. For this reason the scrotal lesion was considered by the patient and his attending surgeon to be of a carbuncular nature; there was, however, but a single opening. Under simple treatment this supposed carbuncular abscess was discharged fully in about a week, and, by the close of the third day following, had filled and perfectly cicatrized. In about a week from this time, another circumscribed cellulitis appeared on the scrotum, about an inch above the first, passing through the same phases, and healing completely in about the same time. Another interval of a week, and a third abscess, precisely like the previous ones in accession and course, occupied the superior portion of the scrotum, after the complete healing of which, the entire scrotum was left quite free from inflammation, induration, or any abnormal appearance. During the next week, another lesion apparently of the same nature occurred on the corresponding side of the penis, three-quarters of inch from the root, giving more pain than any of the previous abscesses. This, after opening, did not heal, but ran along under the integument of the dorsum anteriorly for about an inch, when it there "broke through and discharged carbuncular *débris*." The two openings were united by a division of the intervening integument, which was thin and red. The burrowing of pus continued along the dorsum penis to the fossa glandis, when the prepuce became completely phimosed. An opening into the preputial cavity in the vicinity of the fossa glandis soon occurred, and pus was freely discharged from the preputial



orifice. In trying to wash out the prepuce with a syringe, it was found that the injected fluid traversed the entire length of the dorsum penis, and emerged at the first opening. A small collection of pus was found on the *right* side, which likewise opened into the preputial cavity. At this time the prepuce was very oedematous, and urination was difficult and painful; the pain extended beyond the penis, into the thighs, the calves of the legs, and even occupying the entire heels, not only when urination was attempted, but at night when the patient was endeavoring to sleep. Opiates were given, McMunn's elixir of opium or chlorodyne, but in small doses, from ten to thirty drops, two or three times during the night; larger doses were not well borne, aggravating the unrest. After some weeks the doctor took a sea-voyage, hoping for benefit from change, as his general health had become greatly impaired. After being at sea for some twenty days, with no perceptible benefit, the swelling of the prepuce suddenly increased, and a purple spot appeared on the integument of the dorsum, just behind the glans. The tissues at this point soon gave way, exhaling a fetid odor, and an opening occurred about the size of a dime, which became permanent. The tension of the tissues was now somewhat relieved, but urination continued difficult, and the pains in the thighs, legs, and *heels*, which had hitherto been felt chiefly at night, now continued throughout the day, and were severe, almost beyond endurance, notwithstanding the use of opiates internally and various local appliances. Returning from the voyage after an absence of forty-four days (March, 1874), his surgeon divided the prepuce superiorly from border to base, the incision terminating at the gangrenous opening before mentioned. This gave great relief to the dysuria, and somewhat mitigated the pains in the thighs, etc., which were described as of a heavy, aching character, as from cramp, or excessive muscular tension. An aggravation of his trouble now occurred from the performance of duties which devolved upon him (as the presiding officer of a State medical convention), which induced him to submit to further surgical procedure. A portion of the swollen prepuce was removed; as much as was thought essential to completely relieve constriction, and to get

at the bottom of the sinuses, for treatment. The cut surfaces of the prepuce were left open and healed kindly, with the exception of a small opening under the base of the glans, through which, finally, a communication was established with the urethral canal. This fistula was followed in the course of three or four days by a second, from within outward, and alongside the first, on the opposite side of the median line. After the second opening was established there was some relief to the passage of urine, but none to the aching pain of the extremities. The supposed carbuncular troubles on the scrotum and on the penis were each preceded by a distinct circumscribed induration, involving the thickness of the integument and not movable over the cellular tissue. Similar indurations, smaller in size, now appeared on the under surface of the penis, to the number of three, which each resulted in a urethral fistula, through which urine passed at every urination. These were about half an inch from the junction of the penis with the anterior border of the scrotum, and just to the right of the median line. Nothing further was done in the way of surgical interference, and no improvement occurred either in the urinary difficulty or the pains in the inferior extremities. Consultations, with more than a dozen surgeons to whose notice the case was brought, failed to afford the patient any relief. Not one had ever seen any thing like it. The general opinion was opposed to the idea of malignant trouble. The difficulty was considered of furuncular origin and to have arisen from poverty of the blood, dependent upon overwork. No treatment was advised, except that addressed to the general building up of the system. One surgeon advised amputation of the penis. The patient then decided to come to New York for relief, arriving on September 17, 1874, with letters to the principal surgeons of this city. He was seen by several. The opinions which an examination of his condition elicited, were in perfect accord with those already mentioned, viz., a disease "resulting from poverty of the blood from malaria, etc., and excessive use of opium"—causing the neuralgic pains, etc., from which the patient continued to suffer night and day, and so severely and constantly that a complete demoralization of the patient was imminent.



Priapism added a new element of distress, and with only the hope of obtaining a possible relief from this new complication, by means of the *cold-water coil* (see note at p. 11, descriptive of this apparatus of my own contrivance), he was referred to me. An examination of the penis revealed the condition represented in the woodcut No. 1 on the frontispiece, executed from a drawing which I made at the time of the patient's first visit. I found the glans exceedingly sensitive to touch. The patient was passing his water chiefly through a fistulous opening at the base of the glans, inferiorly. The meatus urinarius was contracted to 13 f. Bulbous sound 13 f. was passed with much pain, hugged closely for one inch until it emerged from the first fistulous opening. This opening was also terribly sensitive; an attempt to examine it causing a profuse perspiration and much complaint. It admitted with difficulty No. 26 f., and then passed down without force  $2\frac{1}{4}$  inches, where it was arrested by a stricture. Bulb No. 23 f. passed through, and was felt to be free at  $2\frac{3}{4}$  inches. My own view of the case, based upon the experience acquired from previously observed cases, where exactly the same character and locality of pain had been found to be dependent upon urethral contractions, determined me to advise complete division of all urethral contractions as the best and only means of relief. The doctor after becoming fully cognizant of my views and reasons for operation, consented to submit himself wholly to whatever was deemed necessary to carry out the proposed operative procedure. The operation was set down for the following day, October 27, 1874. By my invitation, Prof. Thos. M. Markoe and Dr. Geo. A. Peters were present. The patient was put under the influence of chloroform (which he had often taken for relief of his pains, and with perfect impunity) by my assistant, Dr. Fox; and I proceeded first to divide, fully and freely, the contraction from the meatus urinarius to the first fistulous opening, which was of calibre 13 f. This was done so that 31 f. bulbous sound could be easily passed. I then divided the orifice of the main fistulous opening, so that the same bulb could readily enter. An examination of the deeper urethra was now instituted, and it was found that a large-sized probe passed down for one and a half inch, and

thence out of the urethra, to the right, until it entered easily the urinary abscess situated at the root of the penis (marked in the cut), and which had existed for several months. (The patient complained that he always felt pain on urinating, in this locality.) The stricture at  $2\frac{1}{4}$  inches was then defined by 23; and by aid of my small urethrotome this stricture was dilated to 30 f., and divided; 31 solid-steel sound was then passed from the meatus, through the entire urethra, and into the bladder, without force. When the patient came out from the influence of the anæsthetic, he expressed himself as feeling better than for a long time. Bleeding was slight. The first attempt at urinating was painful, but urine was passed more freely than for years. Without opium or any other narcotic, he passed a comfortable night, sleeping for nine hours. On the following morning he stated that he had entire freedom from all the pains so long endured, and that for a similar night's rest he "would be willing to submit to a similar operation every night of his life." There was no return of his pains in the thighs, legs, etc. After two days, I attempted to pass an instrument for the purpose of keeping open the divided strictures; but the pain was so great that I desisted, believing it better to wait until the sensitiveness had subsided, even at the risk of speedy contraction of the deeper stricture. In a week, the patient was out. Went to Brooklyn on a visit. A pair of tight pantaloons, and an evening spent in playing billiards, caused some return of his nervous disturbance in the inferior extremities; but applications of warm cloths to the penis soon relieved him. I then proposed to examine the condition of the urethra, and found, as I had expected, a recontraction of the deeper stricture. On Sunday, November 8th, Drs. Peters, McBirney, and Fox present, I again divided the deep stricture under chloroform. From that time to the patient's departure to his home, December 1st, he had no further trouble. His recovery seemed to have been complete. He left with the promise to communicate with me at once if he had any return of his trouble. I have not since heard from him. Among the other results of the operation, the urinary abscess on the right side of the root of the penis disappeared entirely, and this within ten days after the first operation.



My own view of the origin of the trouble in this case is that, from some unrecognized cause, a follicle in the scrotal portion of the urethra became the subject of inflammatory action; that this follicular inflammation finally resulted in ulceration and the formation of a fine and somewhat tortuous sinus, extending, from the follicular point of exit in the urethra, down to the bottom of the scrotum; that the "dumb ague," which the patient complained of as occurring at about this time, was a *urethral fever*, and *marked the progress of the sinus*,

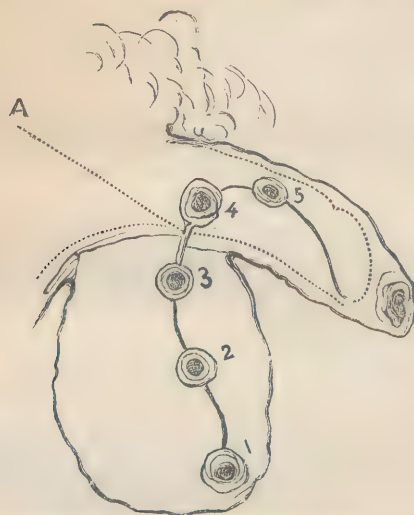


DIAGRAM SHOWING THE LOCALITY OF THE DEEP STRICTURE, COURSE OF THE URINARY SINUS, AND LOCALITY OF THE ABSCESSES.

*A*, Deep stricture. 1, First abscess, connected with 2, 3, 4, and 5, the succeeding abscesses, by the sinus, which commenced at *A*, the point of stricture, and extended down to *I*, the bottom of the scrotum.

which, after reaching the most depending portion of the scrotum, remained in great degree quiescent for five and a half years; and that the depressed condition of health, resulting from general causes, finally brought about an active inflammation, terminating in a primary abscess at the bottom of the sinus; that when the urinary abscess, occurring at the bottom of the scrotum, supervened, the cellulitis accompanying it closed the sinuous tract for an inch, and, after the first abscess had healed, a second cellulitis occurred at the point to which the sinus had been closed by the previous inflammation, and

the second abscess resulted. The inflammation attendant upon this, closing the sinus for another inch or so, after a brief period the third abscess occurred. In the same time and in the same manner a fourth; finally the integument of the body of the penis became involved in the ulcerative process, proceeding to the anterior portion of the organ. Inflammatory paraphymosis, and the consequent tension of all the tissues at this point, naturally gave rise to the urethral fistulæ which appeared in this vicinity.

The dependence of urinary sinus upon antecedent inflammation and ulceration of urethral follicles is claimed by Dittel (Pitha and Billroth's "Handbuch der allgemeinen und speciellen Chirurgie," Band iii., Abtheilung ii., Lief. vi., p. 191), and several cases are reported by him, illustrating, in their course, and also in *post-mortem* examination, the follicular origin of small urinary sinuses. Two such cases were reported by me under the title of "Urethral Follicular Sinuses" in a paper on "Chronic Urethral Discharges," which appeared in the *NEW YORK MEDICAL JOURNAL* of June, 1870.

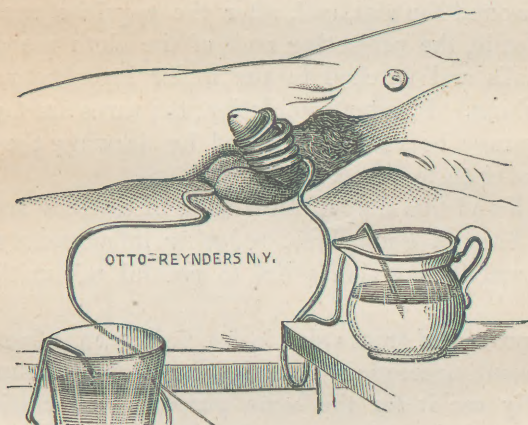
The reflex troubles in this case appear to me to be in exact accordance with those often found associated with urethral stricture, especially at or near the meatus urinarius. They are dependent, possibly upon implication and irritation of nerve-fibres in the cicatricial tissue, or upon long-continued interference with the discharge of urine, in persons debilitated by influences calculated to depress the sympathetic nervous system.<sup>1</sup>

<sup>1</sup> In a paper read before the New York Academy of Medicine in February, 1874 (not yet published), entitled "Reflex Irritation of the Genito-urinary Tract resulting upon Urethral Contractions, congenital or acquired," nineteen cases are reported, and the very scanty literature of the subject is vouted. Some space is also devoted to a consideration of the various ways in which such reflex irritations are produced. A tolerably full abstract of this paper may be found in the *Charleston Medical Journal and Review*, July, 1874.



*The Cold-water Coil in Inflammation of the External Male Genital Apparatus, and as an Antiphlogistic after Operations on the Penis.*<sup>1</sup>—The apparatus which I have designated the “Cold-Water Coil” is formed of a line of the small-sized India-rubber tubing of one-sixteenth of an inch calibre, and six or seven yards in length. At the middle portion this tubing is coiled upon itself, so that, by half a dozen turns or more, it presents sufficient capacity to loosely encircle the entire penis or scrotum.

This coil, with the length of tubing proceeding from it, forms an apparatus through which, on placing one extremity of the tubing in a bowl or tumbler of ice-water, exhausting



its contained air (by suction, or by drawing the tube through the finger), a siphonic current is established through the coil. The discharge-pipe being placed on a lower plane than the water-supply, the current may be kept up until the vessel is emptied.

The rapidity of the flow can be regulated either by raising or lowering the end of either tube, which is the simpler plan; but the more convenient one is by a tapering, double silver tube, attached to the discharge-pipe, a sponge being fitted to the inner tube. This sponge, when the inner tube is pushed down into the smaller end of the outer tube, becomes compressed and gradually obstructs the flow of water, until not a

<sup>1</sup> Reprinted from the *New York Medical Record*, January 9, 1875.

drop will exude. This contrivance may be regulated so that either a free stream can pass, or that the single drops shall follow each other, more or less rapidly, with the regularity and precision of a timepiece.

By means of this arrangement, I have been able to apply cold to the penis or scrotum continuously and conveniently both to the patient and myself. The coils of tubing are retained in position by a band of cotton or linen cloth. A ready method of constructing this apparatus is by placing a strip of thin cloth, six inches in length and two in breadth, lengthwise, upon a large speculum or a four or six ounce vial. The tubing, taken at the middle of a piece six or seven yards long, is wound around the vial, and, after the requisite number of turns are made, the projecting ends of the cloth are doubled over the coils and stitched to the under layer between the turns of tubing. If, after completion, the turns are found too small, they may be readily enlarged by drawing the tubing through the cloth to any desired extent.

I have found this simple contrivance of essential service in the acute form of gonorrhœa, reducing inflammatory action promptly, and thus giving relief to painful micturition and erections.

It has proved of great value in keeping down inflammation and in preventing erections after the operation of circumcision. I habitually use it for the same purpose in operations for stricture, and with results more prompt and satisfactory than those hitherto attained by any medication or application with which I am familiar.

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